

# Francisco Salas

ASPIRING DATA SCIENTIST · HEALTH ANALYTICS

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## Education

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### B.S. in Computer Science

UNIVERSITY OF HOUSTON-DOWNTOWN

*Houston, TX*

*May 2017*

### Data Science Career Track

SPRINGBOARD

*Online*

*October 2018*

## Skills

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### Programming

Python, Go, LaTeX

### Libraries

NumPy, Pandas, Scikit-learn, SciPy, nltk, spaCy, gensim, TextBlob, Beautiful Soup

### Visualization

Seaborn, Matplotlib, Bokeh, Folio

### Machine Learning

Linear Regression, Logistic Regression, Random Forest Classifier, Naive Bayes, SVM, NLP

### Relational Database

PostgreSQL, T-SQL, SQLite

### Tools

Anaconda, Jupyter Notebook, Git, Linux, Bash

## Projects

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### Text Classification on Public Unstructured Health Care Data

NATURAL LANGUAGE PROCESSING

- Extracted 3,062 health care related business from a dataset of 188,593.
- Applied text classification and sentiment analysis on 44,918 Yelp reviews related to health care.
- Resulted in a Naive Bayes accuracy of 0.962 and an SVC accuracy of 0.976.

### Analysis of Crime Neighboring Sporting Events

RANDOM FOREST CLASSIFIER

- Analyzed eight years of crime data from Houston metropolitan area from 2010 to 2017.
- Used haversine formula from crime coordinates to local stadiums to display a one-mile radius of crime committed during a game day.
- Applied random forest classifier to predict the type of offense during a game.

### sal.as

BLOG

- Personal tech blog built with Hugo, a static HTML and CSS website generator written in Go.
- Hosted on Netify, a serverless backend service for static websites with continuous deployment from Git.

## Experience

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### Texas Children's Hospital

DATA ANALYST

*Houston, Tx*

*May. 2017 - PRESENT*

- Collaborated with LIS and clinic management to mine data from a blood bank database system to create reports and drive initiatives to reduce waste.
- Reduced employee onboarding time by creating laboratory software training videos and interactive quizzes with Adobe Captive.
- Developed an application to convert Epic patient demographic report into a list of medical record bar codes, resulting in reduced staff workload and increased accuracy of patient-specific labeling.

### Texas Children's Hospital

LABORATORY TECHNICIAN

*Houston, Tx*

*May. 2008 - May 2017*

- Analyzed reports from Epic and Crystal Reports to plan daily operations and identify areas for improvement in both care and quality.
- Involved in daily interaction with physicians and nurses regarding the order for blood products, discrepancies and transfusion history on blood banking transfusion management software HCLL.
- Process specimens and perform quality control testing.